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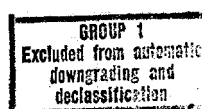
NPIC/TSSG/RED-078/70
4 March 1970

MEMORANDUM FOR: Chief, Technical Services & Support Group
ATTENTION : [] PPS/TSSG
SUBJECT : RED Monthly Report on Significant Events
(February 1970)

A. Significant Items of Interest for February 1970.

1. Dry Process Equipment. NPIC briefings were conducted on two pieces of dry process equipment; i.e., the Enlarger Reader/Printer and the modification of the Diazo Printer/Processor. The project approval requests are in process.
2. High Precision Stereocomparator. The Committee on the High Precision Stereocomparator made recommendations concerning the problem of additional memory core capacity for the 516 Honeywell computer which is an integral part of the HPSC. The project approval request is being prepared.
- 25X1 2. [] preliminary tests at [] indicate that the optical components for the High Precision Stereocomparator exceed specifications. The [] three-week acceptance test at [] is scheduled for 9 March 1970. The April shipment date still looks good. However, this date depends upon the results of the final acceptance test. 25X1
3. Advanced Stereo Rhomboids. [] has submitted a proposal for 0.25X and 0.50X objectives for the Advanced Stereo Rhomboids. 25X1
- 25X1 4. [] Binocular Tube Magnifier. Evaluation of the [] Binocular Tube Magnifier has been completed. The instrument is only partially successful-- optical convergence at high magnification was unsatisfactory. There is no apparent interest in a production procurement of this instrument. 25X1

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5. Light Table Vibration. [] has submitted a proposal for investigating the vibration problem in light tables. 25X1
6. 1540 Light Tables. [] 1540 prototype light tables preacceptance tests have been completed. The [] tables are expected to be received on 2 March. 25X1 25X1
7. Image Comparison Microstereoscope. A letter was received from [] during February 1970 confirming [] willingness to absorb additional costs of this development to the extent of []. Difficulties in assembly have necessitated modification of the central linkage-- a revised design will be forwarded to NPIC during the first week of March 1970. Despite this and other assembly difficulties, [] still predicts completion on schedule and with no additional costs. A preliminary optical alignment was completed-- [] claims unexpectedly good resolutions of 6 lines/mm power. 25X1 25X1 25X1
8. Automatic Stereoscanner. The [] proposal for completion of the scanner development has been received. We are concurrently evaluating the proposal, along with a proposal from [] for an Engineering Audit of the development at []. 25X1 25X1 25X1
9. Stereogram Printer Optical Development. [] has not completed a revised statement of work for the first 12 months, as predicted last month. The Lens Designers have encountered difficulties in achieving desired resolutions at minimum magnification of 2X, and we are considering raising the minimum to 4X. Our optical consultant, [] has recommended a change in the anamorphic design from cylinder lenses to a prismatic arrangement. [] agreed and is now working in that direction. 25X1 25X1
10. Comparison of Line Scan and Photographic Images for Target Identification. [] personnel reviewed the final report from [] entitled "A Comparison of Line Scan and Photographic Images for Target Identification," in terms of planning the second phase of the research effort. Recent discussions with TSSG management and [] scientists have 25X1 25X1

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resulted in a tentative experimental design which shall evaluate GOB photointerpretation with ground resolution characteristic of present as well as future photographic acquisition systems.

11. Mid-70's P. I. Workstation. [redacted] met with DC/PSG on 4 and 25 February, and with C/OD/IEG and his staff on 9 February to coordinate the Center's evaluation of [redacted] Mid-70's P. I. Workstation concepts.
12. Light Table "Sunburn". RED received from the Office of Medical Services a preliminary evaluation of a reported "sunburn" caused by a high intensity light table. The table was sent to the National Bureau of Standards in order to determine the characteristics of radiant energy being emitted by the table in question.
13. Briefing for IEG Interpreters. HFS/ATB personnel chaired a briefing for IEG interpreters who participated as subjects in [redacted] P. I. Target Knowledge and Hunting and Reasoning tests during Phase I of the BY 69-70 contract.
14. P. I. Training Program. HFS/ATB personnel also chaired a coordination meeting with the IEG/TSSG task force to develop a list of candidate targets for [redacted] P. I. Training Program currently under development.
15. Chip R&D Implementation Investigation. A Center-wide Coordination Committee met to evaluate the progress of the Chip R&D Implementation Investigation, Contract [redacted]
[redacted] A thorough discussion and evaluation [redacted] experimental design and overall approach was realized during the three-day conference. Special emphasis was placed upon the compatibility of the proposed chip system alternatives and other information systems currently under consideration for the Center.

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16.

[REDACTED]

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17. [REDACTED] Grant Program. Thesis proposals and reports which have been in arrears under the [REDACTED] Grant Program were received. It is now considered on schedule.

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18. R&D Proposals. [REDACTED] EL/ATB, generated 1971 R&D proposals in the areas of (a) study of specialized color reproduction methods for color films, and (b) producing a colorimetric control target for quality control of color films.

19. Support to DDS&T. On 17-20 February [REDACTED] provided special support and consultation at Headquarters to DDS&T related to image manipulation.

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20. Image Quality Assessment Briefings. On 20 February [REDACTED] gave the first of a series of orientation briefings to RED and APSD personnel. This briefing covered Image Quality Assessment. Future Friday briefings will cover other aspects of laboratory operations and contractual efforts.

21. Fortran IV Program. [REDACTED] EL/ATB, has written a Fortran IV program for the Univac 494 computer. This program, called Gamut, takes spectrophotometric data from two individual dye layers with an equivalent neutral density of one and generates the theoretical color coordinates for all combinations of these two dyes at density levels from 0.0 to 3.0 at intervals of 0.1. This provides both the I.C.I. and the N.B.S.U.C.S. color coordinates and their luminosity. This program has yet to be validated.

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22. FY-71 R&D Program. Final compilation of the detailed project level FY-71 R&D Budget was undertaken this month. This is in anticipation of the OPPB-NPIC/PPBS FY-71 Operating Budget Call which is scheduled for 15 April 1970.

23. CCB Meeting. [REDACTED] represented NPIC R&D interests at the CCB meeting held at SAMSO, 10-12 February. He provided specific recommendations concerning the

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Production Oriented Color Enlarger, Narrow-Band Color Viewer Study, Development of a High-Fidelity Color Duping System, and Evaluation of Image Distortions over distances of 100 micrometers or less. Recommendations on the second and fourth items were accepted; those on the first and third items were taken under advisement.

24. Mid-70's P. I. Workstation. Considerable time was spent throughout the month attempting to solicit and coordinate inputs for the next phase of this planning program. All inputs are promised by the end of this week. Since the due date for these was 26 January 1970, the date for the preliminary wrap-up briefing must be slipped from 2 March to 16 March.
25. Automatic Target Indexing Device. This equipment is still scheduled for delivery in September 1970. A preliminary schedule has been formulated for the T&E, Training, and Operational evaluation of this device after its delivery. Briefings on the ATID were presented to EXRAND, EXSUBCOM, and to COMIREX.
26. [redacted] A series of briefings and demonstrations on the capabilities of the [redacted] Graphics Terminal were presented at the National Institutes of Health using their [redacted] equipment. These demonstrations were tailored to NPIC functions of report editing and graphics manipulation. Sixty-nine people from throughout the Agency attended these demonstrations and their reactions were quite favorable as to its potential. A film is being prepared of this demonstration.
27. Wide-Field, High-Powered Anamorphic Stereoviewer. This project, which has been in a "stop-work" position for several months, is now ready to proceed into the fabrication phase with a new schedule and new technical milestones.
28. Vu-graph Maintenance. All of RED's vu-graphs have now been filed in a logical manner. An index and checkout procedure has been established.

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29. IEG Key. At the request of Chief, TSSG, a study was conducted to determine whether any cost reductions could be made in the production of a newly designed IEG interpretation and identification Key. A report has been forwarded listing specific recommendations.
30. Contract Information System. In response to a directive from Chief, RED, the Contract Information System inputs have been updated and corrected. A new format for the Data Sheets has been developed in an attempt to reduce duplication of effort. Savings should be in the area of 25% to 30% in man-hours.
31. Personnel. [] returned from leave on 24 February 1970. [] entered on duty on 16 February from TSD. [] is a chemist and will be primarily concerned with unconventional emulsions.
32. Training. [] and [] completed the Fortran IV Programming Course conducted by AID/PSG.

B. Anticipated Items of Interest for March 1970.

1. Image Comparison Microstereoscope. [] expects assembly to be complete and testing to start by 20 March.
2. Automatic Stereo Scanner. On 4 March 1970, Messrs, [] will give a presentation in RED amplifying the information in their proposal. It is anticipated that an RED briefing for [], recommending future action on this matter, will be available shortly thereafter.

C. See Attachment 1 (TOP SECRET - []) for the report of RED/RSB significant events for February 1970.

[]
Deputy Chief
Research & Engineering Division

Attachment:

1. []

Distribution:

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2 - TSSG/RED w/o att.

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